DOCKET NO.: DORR-0003 PATENT

Application No.: 10/009,460

Office Action Dated: April 19, 2004

This listing of claims will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims:**

1-13. (Canceled)

- 14. (Currently amended) A thermoplastic composite material comprising consisting essentially of:
  - a) at least 15% by weight of an organic fibrous material or a mixture of two or more organic fibrous materials selected from the group consisting of vegetable fibers, animal fibers, and a combination thereof; and
- b) at least 15% by weight of a thermoplastic binder; wherein the binder comprises at least 10% by weight of one or more polymers selected from the group consisting of polyurethanes, polyesters, polyamides, polyolefins, polyvinyl esters, polyethers, polystyrenes, styrene/olefin copolymers, polyacrylates, ethylene/vinyl acetate copolymers and copolymers of two or more of the polymers, wherein the binder does not consist solely of two different polyacrylates, and wherein said polyacrylates have a glass transition temperature of less than about -20°C; and
- c) up to 20% by weight of one or more ingredients selected from the group consisting of inorganic salts, cationic polymers, preservatives, dyes, natural fats, synthetic fats, paraffins, natural oils, synthetic oils, silicone oils, ionic surfactants, and non ionic surfactants.
- 15. (Original) The composite material of claim 14, comprising 15% to 45% by weight of the organic fibrous material.
- 16. (Original) The composite material of claim 14, comprising at least 40% by weight of the thermoplastic binder.
- 17. (Original) The composite material of claim 15, comprising at least 40% by weight of the thermoplastic binder.

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18. (Currently amended) The composite material of claim 14, wherein the thermoplastic binder comprises at least 30% by weight of polyvinyl acetate.

- 19. (Original) The composite material of claim 14, wherein the thermoplastic binder comprises at least 10% by weight of a copolymer of butadiene and styrene.
- 20. (Cancel).
- 21. (Cancel).
- 22. (Original) The composite material of claim 14, wherein the organic fibrous material comprises leather fibers.
- 23. (Original) The composite material of claim 14, wherein the organic fibrous material comprises fibers having a stretched length of about 0.1 mm to about 15 mm.
- 24. (Currently amended) A process for the production of a thermoplastic composite material, comprising the steps of:
- a) combining in any order and mixing <u>ingredients consisting essentially of (i)</u> one or more organic fibrous materials comprising fibers having a stretched fiber length of 0.1 mm to 15 mm, wherein the organic fibrous materials are selected from vegetable fibers and animal fibers and a combination thereof, (ii) with one or more polymer dispersions, each dispersion comprising one or more polymers selected from the group consisting of polyurethanes, polyesters, polyamides, polyolefins, polyvinyl esters, polyethers, polystyrenes, styrene/olefin copolymers, polyacrylates, [or] ethylene/vinyl acetate copolymers, and copolymers of two or more of the polymers, wherein the polymers comprising the dispersion or dispersions in combination do not eonsisting consist solely of two different polyacrylates, and wherein said polyacrylates have a glass transition temperature of less than about -20°C, and (iii) up to 20% by weight of one or more ingredients selected from the group consisting of inorganic salts, cationic polymers, preservatives, dyes, natural fats, synthetic fats,

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paraffins, natural oils, synthetic oils, silicone oils, ionic surfactants, and non ionic surfactants; and

b) treating the resultant mixture with an aqueous solution of an aluminum salt or copper salt or mixture thereof; and

- c) dewatering and drying the treated mixture from step b), to form a thermoplastic composite material comprising at least 15% by weight of one or more organic fibrous materials and at least 15% by weight of a the one or polymers as a thermoplastic binder.
- 25. (Original) An article of manufacture comprising the thermoplastic composite material of claim 14, laminated with a polymer film on a substrate surface.
- 26. (Currently amended) A process <u>for surface coating [of]</u> a substrate, comprising the steps of bonding the thermoplastic composite material of claim 14 to a substrate surface with a hotmelt adhesive.